

Patent Claims

1. A protective switching device having
 - an operating switching device (2) for switching a load on and off;
 - a disconnection device for disconnection of an input terminal from an output terminal which can be connected to the appliance to be driven, and
 - a protective device for protection of the appliance to be driven against short circuits,characterized in that
 - the protective device has a fuse (3) in each phase for disconnection in the event of a short circuit, with the operating switching device, the disconnection device and the protective device being connected in series and being integrated in a housing.
2. The protective switching device as claimed in claim 1, which is in the form of a semiconductor motor controller, a semiconductor contactor or an electromechanical switching device.
3. The protective switching device as claimed in claim 1 or 2, in which the at least one fuse (3) can be removed from the housing.
4. The protective switching device as claimed in one of the preceding claims, in which the at least one fuse (3) is in the form of a semiconductor protective fuse.
5. The protective switching device as claimed in one of the preceding claims, in which the protective device is arranged between the disconnection device and an output terminal to the appliance to be driven.

6. The protective switching device as claimed in one of the preceding claims, in which the disconnection device, when in the open state, disconnects and releases the at least one fuse (3) from at least one contact, for removal.

7. The protective switching device as claimed in one of the preceding claims, in which the disconnection device can be opened and closed by means of a rotary or slide mechanism.

8. The protective switching device as claimed in one of the preceding claims, in which the at least one fuse (3) is in the form of a cylindrical fuse.

9. The protective switching device as claimed in one of the preceding claims, in which the disconnection device has the functionality of a fused load disconnecter.

10. The protective switching device as claimed in one of the preceding claims, in which the disconnection device has two disconnection points.

11. The protective switching device as claimed in one of the preceding claims, in which the at least one fuse (3) is arranged in a moving part (6) of the disconnection device.

12. The protective switching device as claimed in one of the preceding claims, which has a monitoring device for recording of tripping of the at least one fuse (3).

13. The protective switching device as claimed in one of the preceding claims, in which electronic switching points can be bridged by mechanical contacts.

14. The protective switching device as claimed in one of the preceding claims, which has an overload device.

15. The protective switching apparatus as claimed in claim 14, in which the overload device has an overload relay.

PCT/EP2004/004990
2003P06055WOUS

- 9a -

16. A protective switching device having three current paths as claimed in one of the preceding claims for three-pole appliances, in which

PCT/EP2004/004990
2003P06055WOUS

- 10 -

at least one of the current paths has no operating switching device.